

Amendments to the Specification:

Before the first paragraph on pg. 1, please add the following:

Background

Before the third paragraph on pg. 1, please add the following:

Brief Summary

Before the paragraph on line 23 on pg. 3, please add the following:

Brief Description of the Drawings

Before the paragraph beginning on line 31 on pg. 3, please add the following:

Detailed Description

Please amend the paragraph that begins on line 24 of pg. 4 as follows:

Fig. 2 is a diagrammatic representation of an MR device in accordance with the invention in which the catheter in accordance with the invention can be used. A patient 10 is arranged on a patient table 11 in order to carry out an intravascular intervention. A catheter 1 in accordance with the invention has been introduced into a main artery of the patient 10 in order to perform a treatment on the coronary arteries; it has been advanced as far as the coronary arteries by a physician. At its end which is introduced into the patient 10 the catheter is provided with an image data acquisition device [[12]] and a localization device [[13]]. The image data acquisition device [[12]] may be, for example, a microcoil 12 which is capable of receiving MR signals from its vicinity after excitation by means of an external excitation coil 14, said MR signals providing image information on the vicinity of the microcoil 12 [[4]]. By way of example, the localization device [[13]] is constructed as a magnetic field sensor 13 which co-operates with a coil system array 15 arranged underneath the patient 10. Using the signals emitted by the individual coils of the coil array 15, the position of the magnetic field sensor, and hence the position of the end zone of the catheter 1, can be determined on the basis of the signals received by the magnetic field sensor. The described image acquisition by means of the microcoil 12 and the localization by means of the magnetic field sensor 13 are known per se and, therefore, will not be elaborated herein.

Please amend the paragraph that begins on pg. 2, line 1 as follows:

The object of the invention is also achieved by means of an MR device which includes a main field magnet system for generating a homogeneous, steady main magnetic field, a gradient coil system for generating magnetic gradient fields, an RF coil system for exciting an examination zone, a receiving coil system for receiving MR signals from the examination zone, a catheter ~~as claimed in claim 1~~ for introducing a medical instrument into the object to be examined, notably comprising an active coil which is arranged on or in the catheter for the purpose of catheter localization, local excitation of the examination zone and/or local reception of MR signals, and a control unit for controlling the MR device.

Please amend the paragraph that begins on pg. 2, line 1 as follows:

Advantageous embodiments of the catheter in accordance with the invention are disclosed in the dependent claims. In a preferred embodiment the dielectric material has a relative permittivity ~~which is smaller than 2.3 notably smaller than 1.5~~ of 2.3 or less. For example, polytetrafluoroethylene (PTFE), having a relative permittivity of approximately 2.3, could be used as the dielectric material.